Turnaround Time Dashboard

Reporting period: 11/01/2020 - 11/07/2020

The turnaround time measured is defined as the time between collection of specimen and reporting of results. This includes time to collect the specimen, time to ship the specimen and time to process the specimen and report the result. Some delays incurred between specimen collection and lab receipt of specimen may not be attributable to the labs. The turnaround time data for individual test results are currently only available at the date level (vs. date & timestamp). As such, the turnaround time calculations are based on whole day. On occasion, turnaround time may be higher if there is a date change between collection of specimen and reporting of results. Labs that delivered more than 1,000 results in the week are included in the dashboard.

The data source for the analysis is CalREDIE; detailed methodology is included at the end of the document.
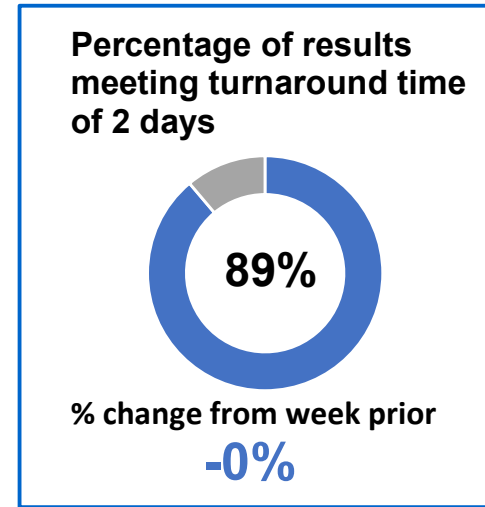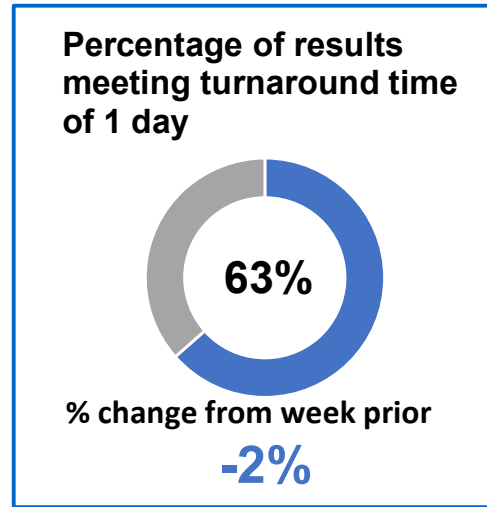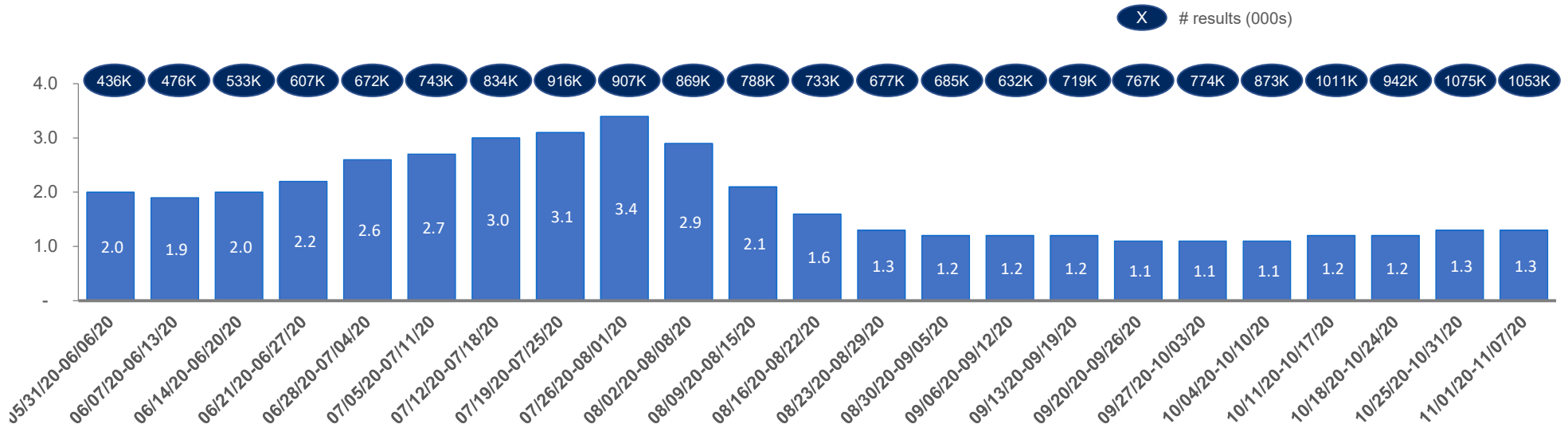
Turnaround Time, days[1]

Information contained in this file is preliminary and pre-decisional

Average turnaround time for week 11/01/20-11/07/20

Average turnaround time from specimen collection to lab result (days)	Percentage of results meeting turnaround time of 1 day	Percentage of results meeting turnaround time of 2 days
1.3 Days	**63%** % change from week prior **-2%**	**89%** % change from week prior **-0%**

Average turnaround time by week, days[1]

X # results (000s)

Week	# results	TAT (days)
05/31/20-06/06/20	436K	2.0
06/07/20-06/13/20	476K	1.9
06/14/20-06/20/20	533K	2.0
06/21/20-06/27/20	607K	2.2
06/28/20-07/04/20	672K	2.6
07/05/20-07/11/20	743K	2.7
07/12/20-07/18/20	834K	3.0
07/19/20-07/25/20	916K	3.1
07/26/20-08/01/20	907K	3.4
08/02/20-08/08/20	869K	2.9
08/09/20-08/15/20	788K	2.1
08/16/20-08/22/20	733K	1.6
08/23/20-08/29/20	677K	1.3
08/30/20-09/05/20	685K	1.2
09/06/20-09/12/20	632K	1.2
09/13/20-09/19/20	719K	1.2
09/20/20-09/26/20	767K	1.1
09/27/20-10/03/20	774K	1.1
10/04/20-10/10/20	873K	1.1
10/11/20-10/17/20	1011K	1.2
10/18/20-10/24/20	942K	1.2
10/25/20-10/31/20	1075K	1.3
11/01/20-11/07/20	1053K	1.3

1. Average turnaround times were determined based on date timestamp data only - hour timestamp currently unavailable
2. Results assigned to week based on specimen result date; Results may be delayed entering CalREDIE production, therefore the metrics retroactively change

Source: CalREDIE ELR messages received in CalREDIE production; "Specimen collected date" and "Result date" are reported by the laboratory via HL7 ELR messages

Detailed lab data on next page

Information contained in this file is preliminary and pre-decisional

Legend:
- ▭ Period of time with majority of results
- ▲ Increase in % results within 2 days from prior period
- ▬ Defined as -1 to 1% change in results within 2 days from prior period
- ▼ Decrease in % results within 2 days from prior period

	Lab	Total test count	1 day, % of results	2 days, % of results	3 days - 4 days, % of results	5+ days, % of results	Total results within 2 days, % of results	Difference in % of results within 2 days from prior period[4]	Specimen collection to result average TAT (days)[1]
Total	**Total**	1,052,972	63%	25%	10%	1%	89%	▬ 0%	1.3
Commercial Labs	KorvaLabs/Curative	119,954	84%	15%	0%	0%	100%	▬ 0%	1.0
	Fulgent Genetics	103,286	47%	45%	7%	1%	92%	▼ -2%	1.7
	Quest	102,277	21%	51%	27%	1%	72%	▲ 14%	2.2
	Labcorp	92,489	37%	53%	10%	1%	90%	▲ 8%	1.8
	Avellino	35,251	100%	0%	0%	0%	100%	▬ 0%	<1
	Color Genomics	33,405	95%	5%	0%	0%	100%	▬ 0%	<1
	SummerBio	25,992	100%	0%	0%	0%	100%	▬ 0%	<1
	Helix OpCo	25,807	68%	25%	8%	0%	92%	▲ 18%	<1
	Priva Path (dba LGC Labs)	24,424	58%	10%	32%	0%	68%	▼ -26%	1.9
	WestPac Labs	21,002	80%	17%	3%	0%	97%	▲ 4%	<1
	BioReference Laboratories	20,391	20%	22%	48%	9%	43%	▼ -13%	2.7
	Exceltox	12,692	100%	0%	0%	0%	100%	▬ 0%	<1
	StemExpress	8,372	71%	28%	1%	0%	99%	▲ 1%	1.2
	MiraDx	7,956	71%	23%	6%	1%	94%	▬ 1%	1.1
	Primex Clinical Laboratories	6,723	100%	0%	0%	0%	100%	▬ 0%	<1
	Biocept	6,385	100%	0%	0%	0%	100%	▬ 0%	<1
	STS Lab 2	5,949	43%	46%	10%	1%	89%	▬ 0%	1.4
	CMB Labs	4,081	100%	0%	0%	0%	100%	▬ 0%	<1
	Genesis Laboratory Management	4,053	72%	23%	5%	0%	95%	▲ 3%	1.3
	AIT Labs	3,873	10%	29%	54%	7%	39%	▲ 11%	2.8
	HealthQuest Esoterics	3,338	29%	28%	18%	25%	57%	▼ -18%	2.8
	Genesis Reference Laboratories	3,144	48%	36%	14%	2%	84%	▬ 0%	1.8
	IGeneX	3,133	83%	13%	3%	1%	96%	▼ -2%	1.2
	Valley Clinical Laboratory	3,081	89%	10%	0%	0%	100%	▲ 5%	<1
	Genetworx	3,059	59%	23%	16%	2%	82%	▲ 4%	1.2
	Clinical Reference Laboratory	2,678	7%	42%	43%	8%	49%	▲ 2%	2.8
	UDL	2,256	88%	10%	2%	0%	98%	▬ 0%	1.1
	Foundation labs	2,204	72%	23%	3%	2%	96%	▬ 0%	1.4
	MD Labs	2,166	100%	0%	0%	0%	100%	▬ 0%	<1
	Mako Medical	2,090	100%	0%	0%	0%	100%	▬ 0%	<1
	Sun Clinical Laboratories	2,068	100%	0%	0%	0%	100%	▬ 0%	<1
	Pacific Diagnostic Laboratories	1,797	99%	0%	0%	0%	100%	▬ 0%	<1
	Sunrise Diagnostic Laboratory	1,639	98%	1%	0%	0%	100%	▬ 0%	1.0
	ARUP	1,623	2%	4%	92%	2%	6%	▼ -8%	3.3
	Akesogen Inc	1,368	100%	0%	0%	0%	100%	▬ 0%	<1
	Universal Diagnostic Laboratories	1,082	59%	24%	15%	1%	84%	▲ 12%	1.7
	Pangea Labs	1,052	99%	1%	0%	0%	100%	▲ 1%	<1
	Other Commercial (n=47)	11,362	93%	5%	2%	0%	98%	▲ 1%	<1
	Total Commercial	713,502	61%	28%	10%	1%	89%	▲ 2%	1.3
Medical Center Affiliated Labs	Kaiser NorCal	69,252	21%	45%	32%	2%	66%	▼ -13%	2.2
	Kaiser SoCal	49,392	86%	13%	0%	0%	100%	▬ 0%	1.0
	Sutter Health	14,966	97%	3%	0%	0%	100%	▬ 0%	<1
	UC Irvine	12,697	60%	30%	10%	0%	90%	▲ 20%	1.4
	Stanford Hospital and Clinics	12,282	91%	9%	1%	0%	99%	▲ 1%	<1
	Dignity Health	10,535	94%	5%	1%	0%	99%	▬ 0%	<1
	Providence Health & Services	7,983	94%	2%	3%	1%	96%	▼ -2%	<1
	UCSF	7,315	69%	9%	17%	5%	78%	▲ 5%	1.3
	Calm Lab	7,177	99%	1%	0%	0%	100%	▬ 0%	<1
	Sharp HealthCare	7,045	61%	18%	13%	8%	79%	▼ -2%	1.8
	Innovative Genomics Institute	6,626	100%	0%	0%	0%	100%	▬ 0%	<1
	Santa Clara Valley Medical Center	6,395	97%	3%	0%	0%	100%	▬ 0%	<1
	HCA	6,221	99%	1%	0%	0%	100%	▬ 0%	<1
	UCLA	6,012	99%	0%	0%	0%	100%	▬ 0%	<1
	Scripps	4,126	100%	0%	0%	0%	100%	▬ 0%	<1
	Adventist Health	4,043	81%	8%	10%	1%	89%	▲ 1%	<1
	Cedars-Sinai Medical Center	3,642	87%	9%	2%	2%	96%	▲ 4%	1.0
	University of Southern California - Los Angeles	3,497	97%	2%	1%	0%	99%	▬ -1%	<1
	Loma Linda University Health	3,243	97%	0%	2%	1%	97%	▲ 1%	<1
	UC Davis	2,451	99%	1%	0%	0%	100%	▬ 0%	<1
	Community Medical Centers	2,187	100%	0%	0%	0%	100%	▬ 0%	<1
	Contra Costa Medical Center	2,086	97%	3%	0%	0%	100%	▬ 0%	<1
	Zuckerberg San Francisco General Hospital	2,001	95%	2%	3%	0%	97%	▼ -2%	<1
	Mayo Clinic	1,978	47%	2%	39%	13%	49%	▼ -13%	2.1
	Ventura County Hospital	1,705	100%	0%	0%	0%	100%	▬ 0%	<1
	Cal Poly	1,683	100%	0%	0%	0%	100%	▬ 0%	<1
	Children's Hospital Los Angeles	1,495	95%	5%	0%	0%	100%	▬ 0%	<1
	MLK Jr. Hospital	1,313	89%	4%	6%	0%	93%	▬ -1%	<1
	Kaweah Delta	1,100	100%	0%	0%	0%	100%	▬ 0%	<1
	MemorialCare	1,050	100%	0%	0%	0%	100%	▬ 0%	<1
	Huntington Hospital	1,017	100%	0%	0%	0%	100%	▬ 0%	<1
	Other Medical Center Affiliated (n=89)	17,292	93%	4%	2%	1%	97%	▬ -1%	<1
	Total Medical Center Affiliated	279,807	72%	17%	10%	1%	89%	▼ -3%	1.1
Public Health Labs	Valencia Regional Lab (VRL)	16,646	11%	57%	28%	3%	69%	▼ -23%	2.4
	San Diego PHL	6,419	60%	38%	2%	0%	98%	▬ -1%	1.4
	Contra Costa PHL	5,624	89%	11%	0%	0%	100%	▬ 0%	1.1
	Sonoma PHL	3,848	61%	34%	5%	0%	94%	▼ -4%	1.5
	Santa Clara PHL	2,288	48%	45%	7%	0%	93%	▼ -4%	1.6
	San Francisco PHL	2,157	41%	51%	8%	0%	92%	▲ 1%	1.7
	Napa-Solano-Yolo PHL	1,568	68%	30%	1%	0%	99%	▲ 2%	1.1
	Monterey PHL	1,522	83%	16%	1%	0%	99%	▬ -1%	1.1
	Tulare PHL	1,517	53%	23%	23%	1%	76%	▼ -9%	1.7
	Santa Barbara PHL	1,503	73%	25%	2%	1%	98%	▲ 10%	1.4
	Orange PHL	1,362	70%	28%	1%	0%	99%	▬ 0%	1.2
	Alameda PHL	1,063	43%	52%	5%	0%	95%	▲ 2%	1.6
	Other PHL (n=12)	6,124	70%	19%	9%	2%	89%	▲ 3%	1.5
	Total PHL	51,641	49%	38%	12%	1%	86%	▼ -8%	1.7
Uncategorized[3]	**Total Uncategorized**	8,022	92%	7%	2%	0%	98%	▬ 1%	<1

Methodology for calculating lab turnaround time (TAT) from specimen collection to lab result

Data

- Data source - CalREDIE Electronic Lab Reporting (ELR) messages received in CalREDIE production
- "Specimen collected date" and "Result date" are reported by the laboratory via HL7 ELR messages

Assumptions

- Specimens collected prior to 3/1/2020 excluded from analysis due to potential concerns with data accuracy
- Only labs processing at least 1K tests during the reporting period are included in the lab breakdown
- The turnaround time measured is defined the time between collection of specimen and reporting of results.
  - This includes time to collect the specimen, time to ship the specimen and time to process the specimen and report the result. Some delays incurred between specimen collection and lab receipt of specimen may not be attributable to the labs.
- The turnaround time data for individual test results are currently only available at the date level (vs. date & timestamp). As such, the turnaround time calculations are based on whole day. On occasion, turnaround time may be higher if there is a date change between collection of specimen and reporting of results.
- **Sample calculation**
  - Example data: Specimen collected date: 7/20, Result date: 7/27, DISA arrival date: 7/27
  - Specimen collection to CDPH receipt of lab result = Result date (7/27) - Specimen collected date (7/20) = 7 days
  - Lab result to CDPH receipt of lab: DISA arrival date (7/27) - Result date (7/27) = <1 day

Additional notes

- The metrics described may differ from other state-reported data. The testing volumes in this report includes only ELR messages received in CalREDIE production
- Results are assigned to week based on specimen result date and there may be a delay in releasing results into CalREDIE production, as local health jurisdictions may still be processing the result in the reported period. As such, the metrics may retroactively change as results come in for prior reporting periods
- The metrics described may differ from other state-reported data. The testing volumes in this report includes only ELR messages received in CalREDIE production